FIGURE 1

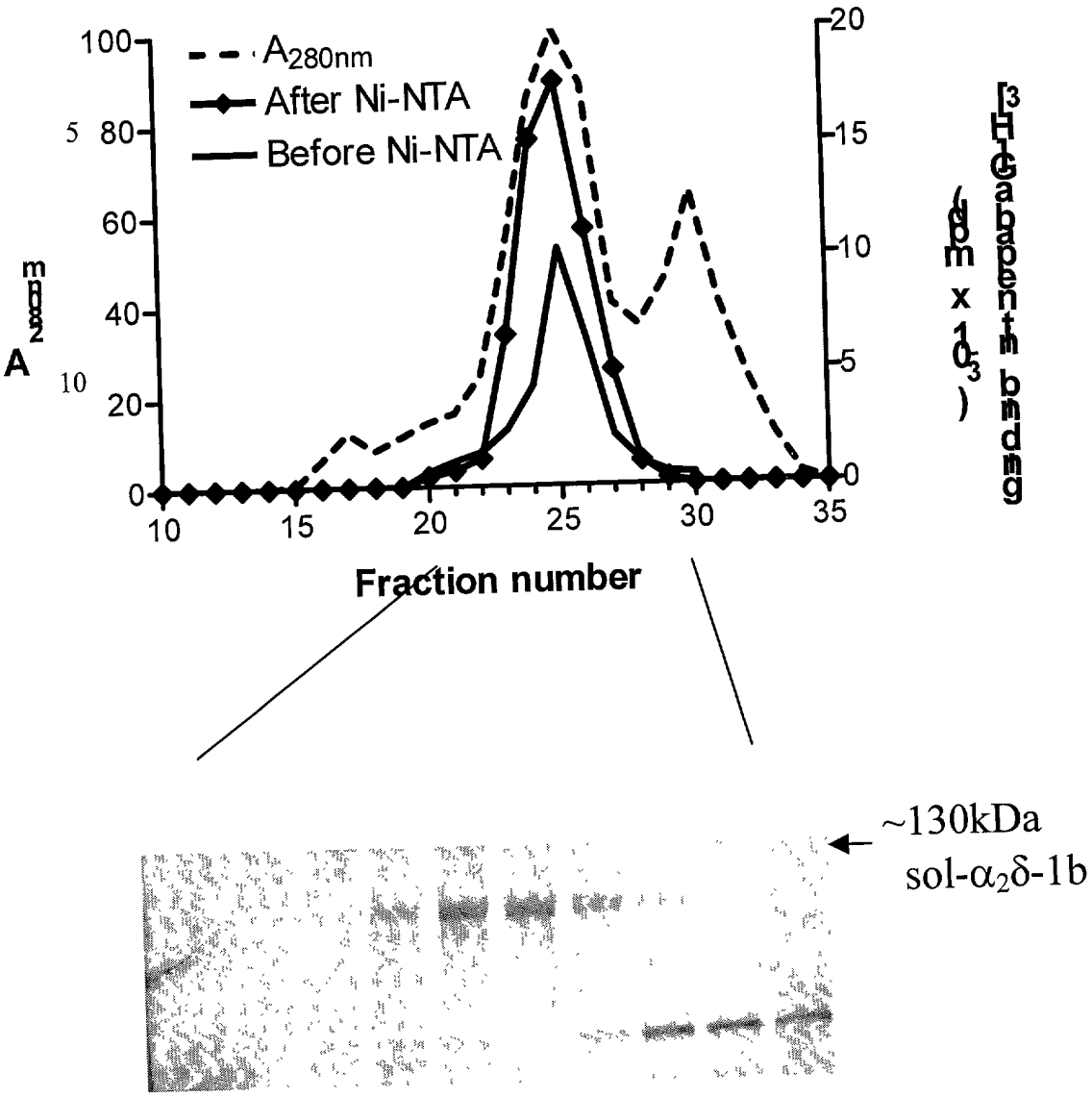

A280nm
After Ni-NTA
Before Ni-NTA
Fraction number
~130kDa
sol-α2δ-1b

**FIGURE 2**

SPA assay of [$^3$H]gabapentin (18.4nM) binding to s-$\alpha_2\delta$-1b-6His (20µl). Optimis
Imidazole concentration in the assay.

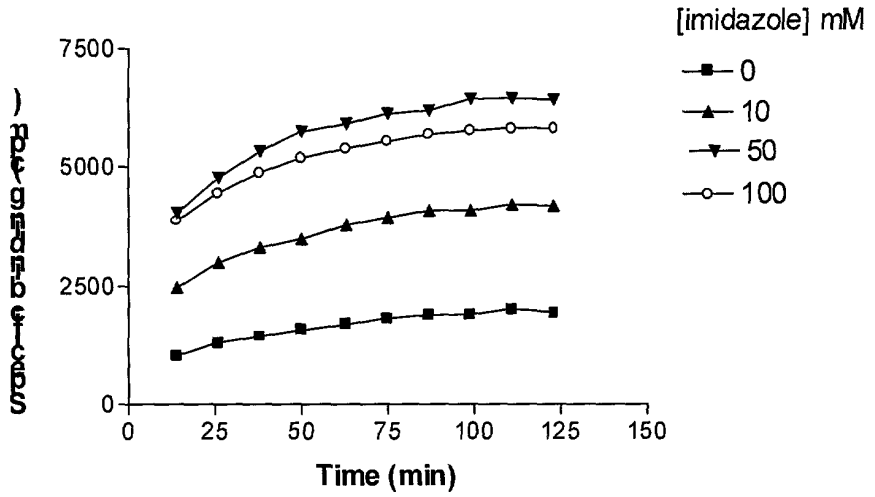



**FIGURE 3**

Flashplate assay of [$^3$H]gabapentin (14nM) binding to s-$\alpha_2\delta$-1b-6His (10µl). Optimisation of Imidazole concentration in the assay.

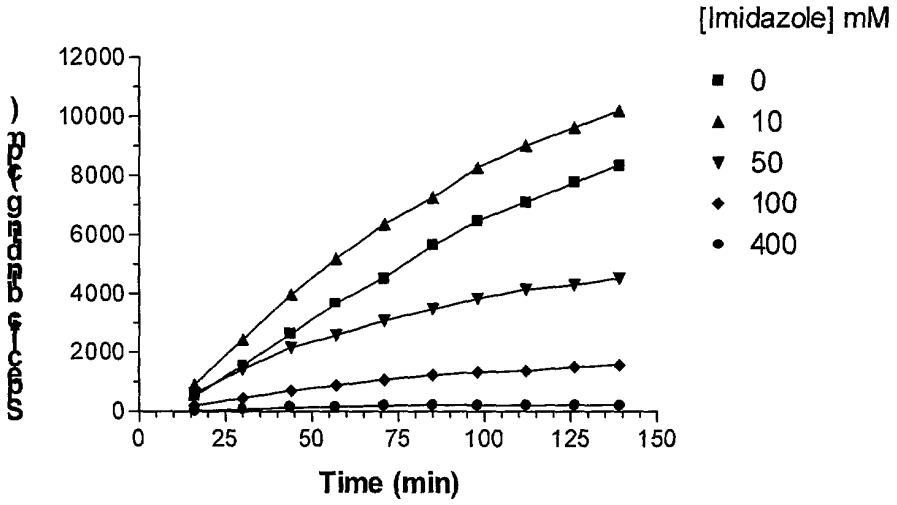
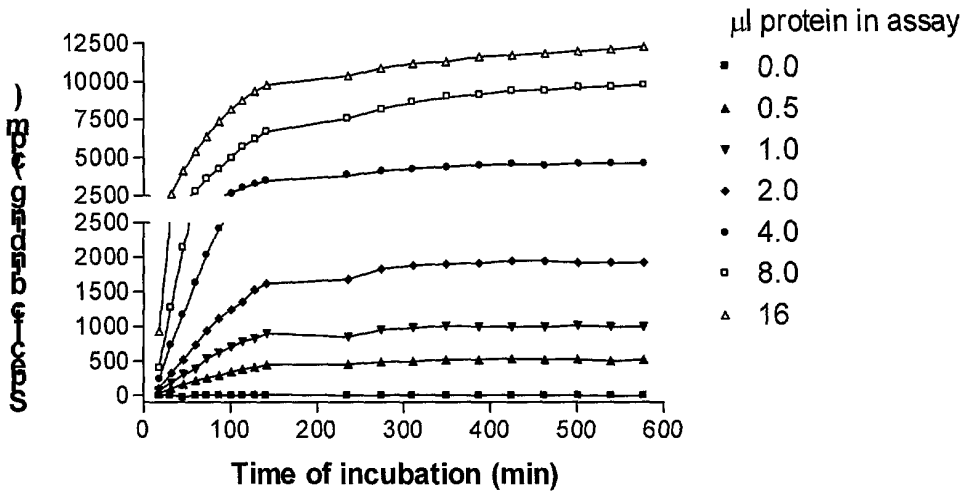


**FIGURE 4**

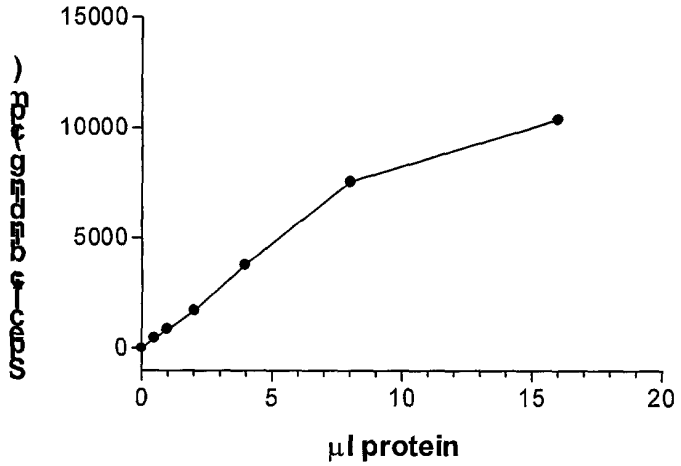
Flashplate time course of [$^3$H]gabapentin (13nM) binding to various concentrations of s-$\alpha_2\delta$-1b-6His.




10mM imidazole in assay

**FIGURE 5**

Determination of s-$\alpha_2\delta$-1b-6His capacity of flashplate assay. Counted after 3hour incubation




Utility Application

**FIGURE 6**

Determination of the optimum imidazole concentration required to maximize the [$^3$H]gabapentin (13nM) binding window using a constant amount of purified s-$\alpha_2\delta$-1b-6His (2µl). Assayed after 3hour incubation.

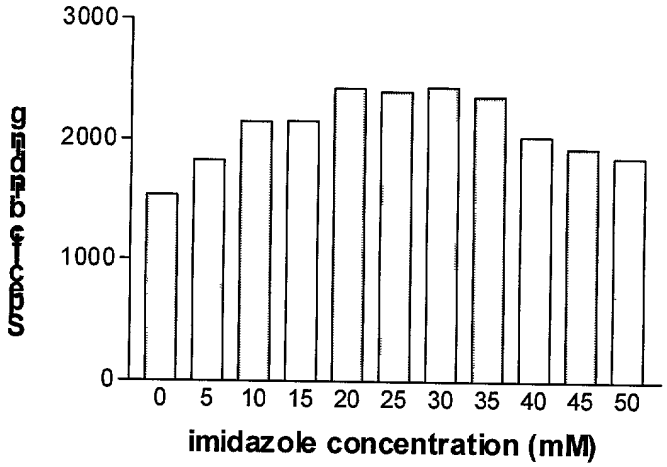
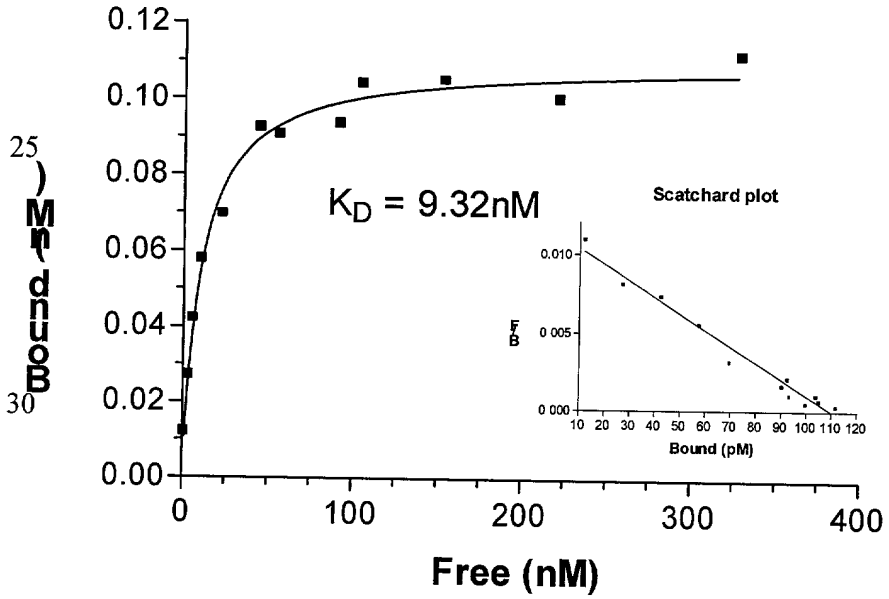



**FIGURE 7**

Flashplate assay of [$^3$H]gabapentin saturation binding to purified s-$\alpha_2\delta$-1b-6His. Assayed after three hour incubation (see table 1 for details).




Utility Application

Figure 8

Flashplate time course optimisation of Imidazole concentration required to maximize the [$^3$H]Leucine (10.1nM) binding window to s-$\alpha_2\delta$-1b-6His. Assayed after three hour incubation.

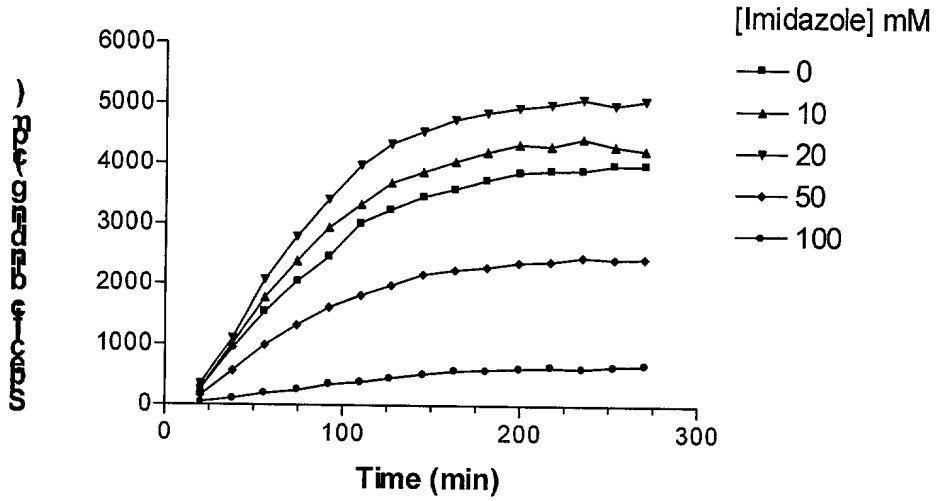
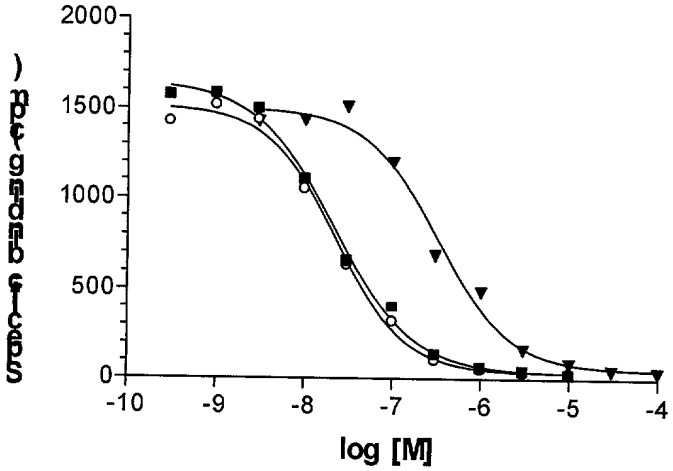



**FIGURE 9**

Competition curves of three compounds in the flashplate assay format (see table 2 for details). Assayed after 3 hour incubation.




- ■ Gabapentin
- ○ (S+)-3-isobutyl GABA
- ▼ (R-)-3-isobutyl GABA